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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/900,423	07/06/2001	John E. Sell	NUFO005	4970	
75	90 08/05/2003	·			
JAMES Y. GO BLAKELY SOKOLOFF TAYLOR &ZAFMAN LLP 12400 WILSHIRE BOULEVARD 7TH FLOOR LOS ANGELES, CA 90025			EXAMINER VY, HUNG T		
			DATE MAILED: 08/05/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	I Am	plicant(s)	<u> </u>
••					
	Office Action Summan	09/900,423		LL ET AL.	
Office Action Summary		Examiner	Art	Unit	
•		Hung T Vy	282		
Period fo	The MAILING DATE of this communication ap or Reply	op ars on the cov r	sheet with the corre	spondence addre	ess
THE - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a re period for reply is specified above, the maximum statutory perior re to reply within the set or extended period for reply will, by statu reply received by the Office later than three months after the mailied ad patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, howe ply within the statutory min d will apply and will expire s te, cause the application to	ver, may a reply be timely fil mum of thirty (30) days will SIX (6) MONTHS from the m become ABANDONED (35	ed be considered timely. ailing date of this comn U.S.C. § 133).	nunication.
1)⊠	Responsive to communication(s) filed on <u>02</u>	July 2003			
2a) □	•	his action is non-fi	nal.		
3)	Since this application is in condition for allow closed in accordance with the practice unde	vance except for fo	rmal matters, prose		nerits is
Disposit	on of Claims				
4) 🖂	Claim(s) <u>1-19,21-28 and 30-38</u> is/are pendin	g in the application	•.		_
	4a) Of the above claim(s) is/are withdra	awn from considera	ition.	0 . 9	
5)	Claim(s) is/are allowed.			Tank	•
6)🛛	Claim(s) 1-19,21-28 and 30-38 is/are rejected	d .		PAUL IP	
7)	Claim(s) is/are objected to.	•		SORY PATENT EX	
	Claim(s) are subject to restriction and/	or election requirer	nent.	IOLOGY CENTER :	2800
	The specification is objected to by the Examin	er.			
′=	The drawing(s) filed on is/are: a)□ acc		ed to by the Examine	er.	
,	Applicant may not request that any objection to t	•	•		
11)	The proposed drawing correction filed on		-	` *	
,	If approved, corrected drawings are required in r	_ , ,	• • • • • • • • • • • • • • • • • • • •		
12)	The oath or declaration is objected to by the E				
•	ınder 35 U.S.C. §§ 119 and 120				
	Acknowledgment is made of a claim for foreign	n priority under 35	IISC & 119(a) ₋ (d)	or (f)	
-	☐ All b)☐ Some * c)☐ None of:	, priority under co	5.5.5. 3 115(a) (a)	01 (1).	
a) _i	1. ☐ Certified copies of the priority documer	nts have been rece	ved		
	2. Certified copies of the priority documer			Io	
			• •		
* 5	3. Copies of the certified copies of the pri application from the International B See the attached detailed Office action for a lis	ureau (PCT Rule 1	7.2(a)).	triis ivationai St	iye
14) []	acknowledgment is made of a claim for domes	tic priority under 3	5 U.S.C. § 119(e) (to	a provisional ap	plication)
) \square The translation of the foreign language parks that \square				
\ttachmen	t(s)		•		
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	4) 5) 6)	Interview Summary (PTo Notice of Informal Paten Other:		
6. Patent and T FO-326 (Re	rademark Office v. 04-01) Office A	ction Summary	Part	of Paper No. 10	

DETAILED ACTION

1. In response to the communications filed on 07/02/2002, claims 1-19, 21-28, and 30-38 are pending in this application as a result of the cancellation of claims 20 and 29.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-19, 21-28, and 30-38 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 1 and 33, the phrase "activated carbon drain" renders the claim indefinite because it is unclear what is activated carbon drain. It is not clear whether it is a drain or absorb. Further, the phrase "inert atmosphere" renders the claim indefinite because it is not clear what is inert atmosphere.

Regarding claim 2, the phrase "gain medium emitting a beam" renders the claim indefinite because it is not clear how gain medium can emit a beam, the gain medium is not laser. Further, the phrase "inert atmosphere" renders the claim indefinite because it is not clear what is inert atmosphere.

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Regarding claim 22, the phrase "vacuum baking" renders the claim indefinite because it is not clear what is vacuum baking. Further, the phrase "inert atmosphere" renders the claim indefinite because it is not clear what is inert atmosphere.

Claims 2-13, 15-19, 21, 23-28, 30-32, and 34-38 depend from rejected claim 1, 14, 22 and 33 thereby render these dependent claims indefinite.

Claim Rejections - 35 U.S.C. § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth insection 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-9, 11-13, and 33-38 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Flanders, U.S. patent No. 6,366,592 in view of Yoshikawa et al., U.S. Patent No. 5,497,937.

Regarding claims 1-3, 11, 33 -38, Flanders discloses a laser apparatus comprising an external cavity laser (See column 3, line 55) and laser source therein (422) (See fig.10), and a hermetically sealable container (110) (see column 3, line 51-52) configured to enclose external cavity laser. Flanders discloses the hermetically sealable container is hermetic and contructed from a mechanically and temperature stable substance (See column 3, line 50-56) and external cavity laser is tunable (see

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column 1, line 55-57), But Flanders does not disclose an activated carbon drain. However, Yoshikawa et al. discloses activated carbon drain positioned within said hermetically sealable container to absorb outgassing compounds (see column 2, line 5-60 and column 7, line 51-50). It would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify Flandres to have activated carbon drain as taught by Yoshikawa et al. because those skilled in the art will recognize that such modification and variations can be made without departing from the spirit of the invention.

Regarding claims 12-13, it is inherent that the apparatus, wherein said insert atmosphere is a gas in order to improve the stable and long life for device. Further, Flanders disclose an optical fiber (112) extending into said hermetically sealable container (see fig. 1) and positioned to receive optical output from said external cavity, and a fiber feed through, configured to hermitically seal said optical fiber (see fig. 1).

Regarding claims 4-9, Flandres discloses the apparatus, wherein said external cavity laser in hermetically sealable container (110), a gain medium (422) having a first and second output facets, second output facet having anti-reflective coating thereon (See column 6, line 61-67 and column 7, line 1-7), external cavity laser comprises a grid generator (716) and a tuning assembly operatively coupled to said channel selector (714) and configured to adjust said channel selector (See fig. 10).

4. Claims 14-19, 21-28, and 30-32 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Flanders, U.S. patent No. 6,366,592 in view of Wieser et al., U.S. Patent No. 6,282,222.

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Regarding claims 14-19, Flandres discloses the apparatus, wherein said external cavity laser in hermetically sealable container (110), a gain medium (422) having a first and second output facets, second output facet having anti-reflective coating thereon (See column 6, line 61-67 and column 7, line 1-7), external cavity laser comprises a grid generator (716) and a tuning assembly operatively coupled to said channel selector (714) and configured to adjust said channel selector (See fig. 10), but Flandres does not disclose a moisture trap. However, Wieser et al. discloses a moisture trap (38) positioned within said hermetically sealed container to absorb moisture within said hermetically sealed container (See Fig. 1 and column 7, line 20-24 or column 8, line 30-42), vacuum baking at least one outgassing component of said laser prior to said hermitically sealing (see column 10, line 38-43).

Regarding claim 21, Wieser et al. discloses the laser apparatus, wherein said inert atmosphere is gas slected from Ne, Ar Kr, Xe (See abstract)

With respect to claims 22-28, and 30-32, the methods for fabricating a laser are considered as product by process steps.

5. Claim 10 is rejected under 35 U.S.C. 103 (a) as being unpatentable over Flanders, U.S. patent No. 6,366,592 in view of Yoshikawa et al., U.S. Patent No. 5,497,937 and Wieser et al., U.S. Patent No. 6,282,222.

Regarding claim 10, Wieser et al. discloses apparatus wherein, the activated carbon drain to absorb outgassing compounds that occur during operation of the laser source (see column 2, line 5-60 and column 7, line 51-50).

Response to Arguments

Applicant's arguments with respect to claims 1-19, 21-28,30-38 have been 6. considered but are most in view of the new ground(s) of rejection.

Citation of Pertinent References

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The patent to Nakagawa et a. discloses Oxygen Absorption Composition, U.S. Patent No. 6,004,477.

The patent to Wong discloses Passive and Active Infrared Analysis Gas Sensor and Applicable Multichannel Detector Assembles, U.S. Patent No. 5,721,430.

The patent to Mizushima et al. discloses Farrication of Electronic components Having a Hollow Package Structure with Ceramic Lid, U.S. Patent No. 6,165,816.

The Pub. to Ogura et al. discloses Light emitting Device, U.S. Pub. No.2002/0070663.

Conclusion

8. When responding to the office action, Applicants are advised to provide the examiner with the line numbers and page numbers in the application and/or references cited to assist the examiner to locate the appropriate paragraphs.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung Vy whose telephone number is (703) 605-0759. The examiner can normally be reached on Monday-Friday 8:30 am - 5:30pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul IP can be reached on (703) 308-3098. The fax numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

PAUL IP SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800

Hung T. Vy Art Unit 2828 July 25, 2003